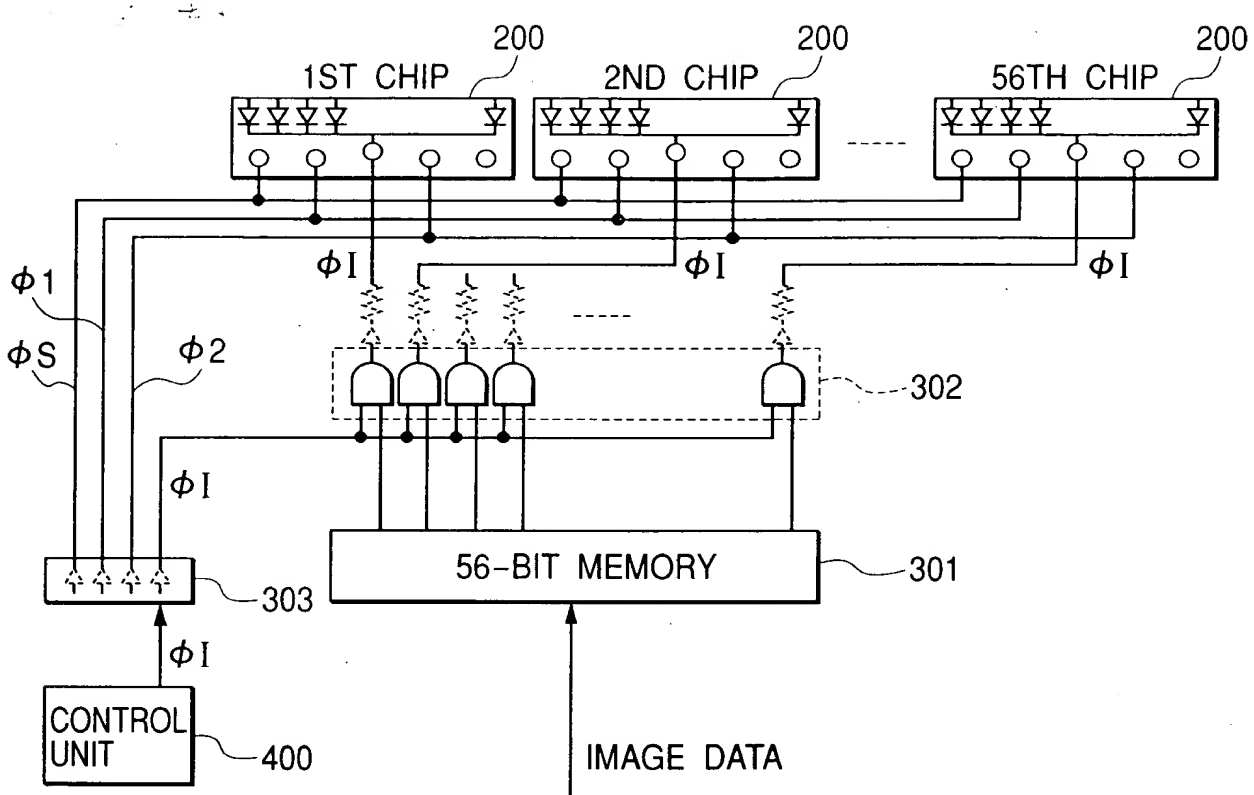
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 1



600

	x: 1	2	3	----------	56 BITS
y: ADDRESS 1	1ST CHIP 1 BIT	2ND CHIP 1 BIT		----------	56TH CHIP 1 BIT
2	1ST CHIP 2 BITS	2ND CHIP 2 BITS		----------	56TH CHIP 2 BITS
3					
⋮	⋮	⋮			⋮
125	1ST CHIP 125 BITS				
126	1ST CHIP 126 BITS	2ND CHIP 126 BITS		----------	56TH CHIP 126 BITS

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

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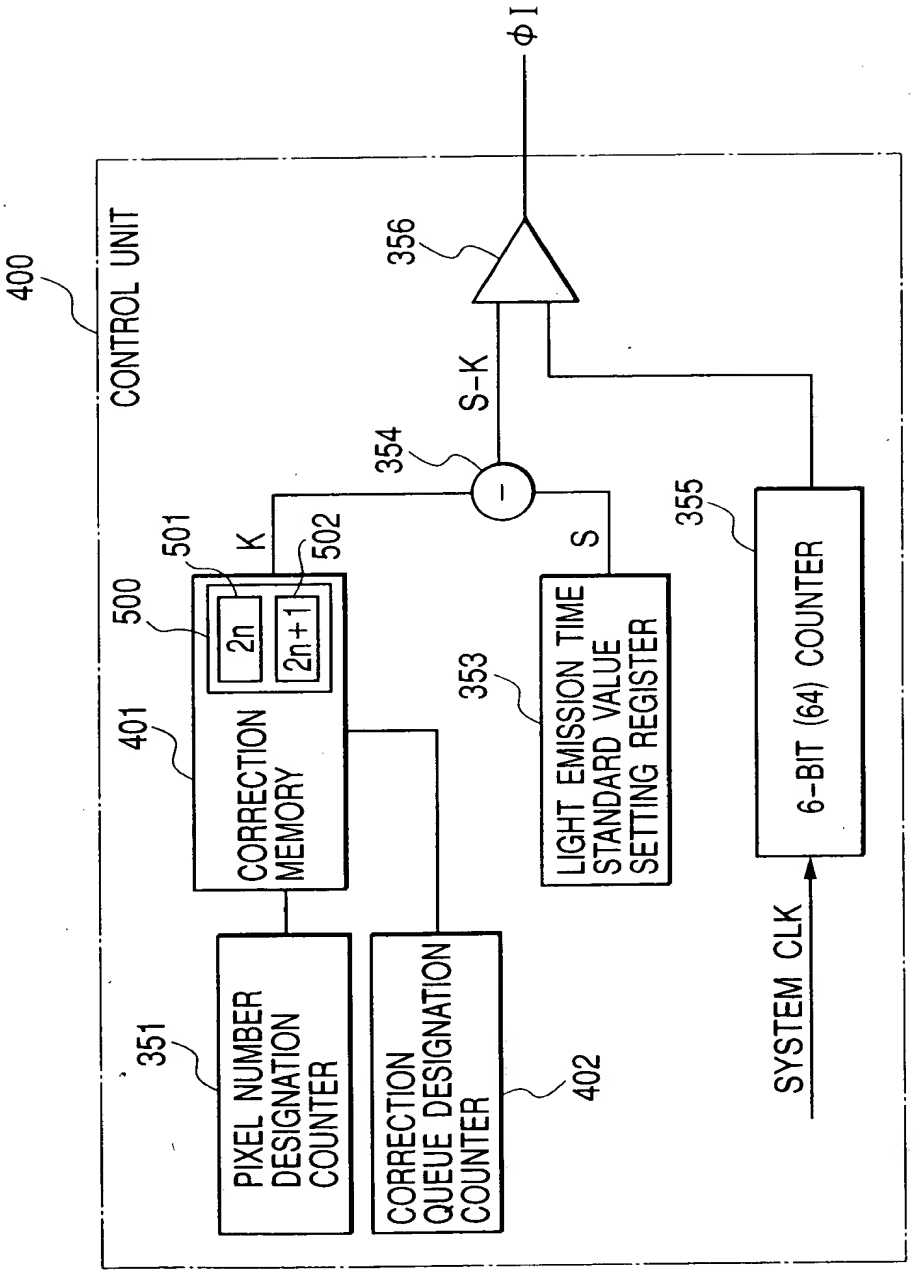
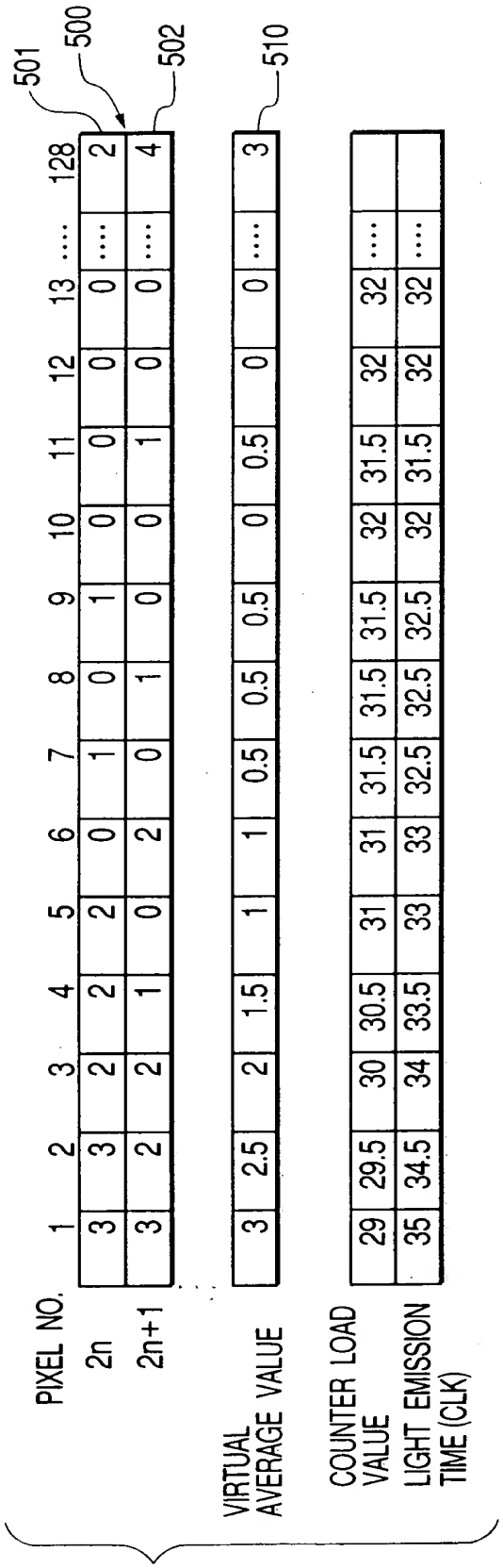
FIG. 2



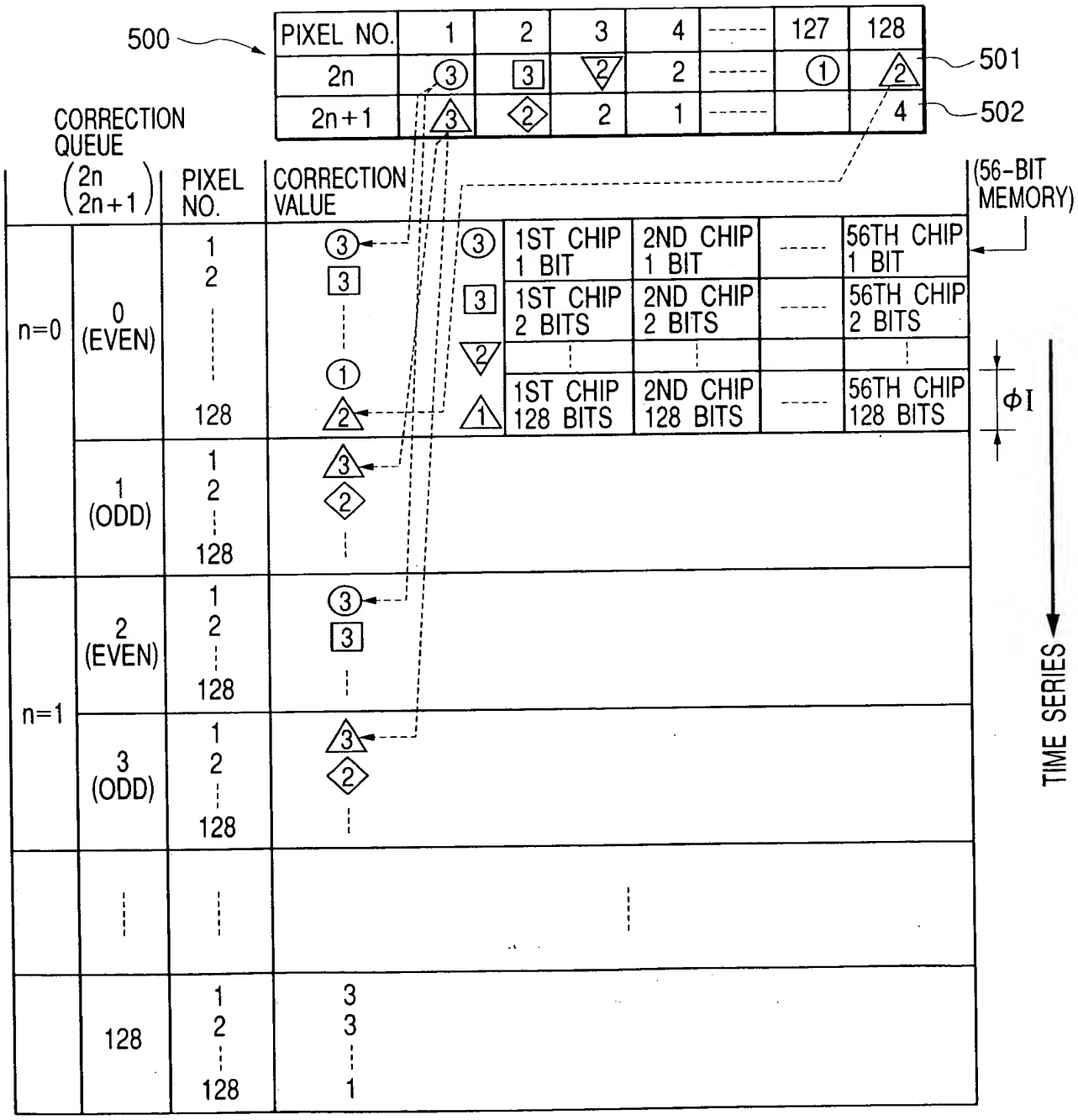
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 3



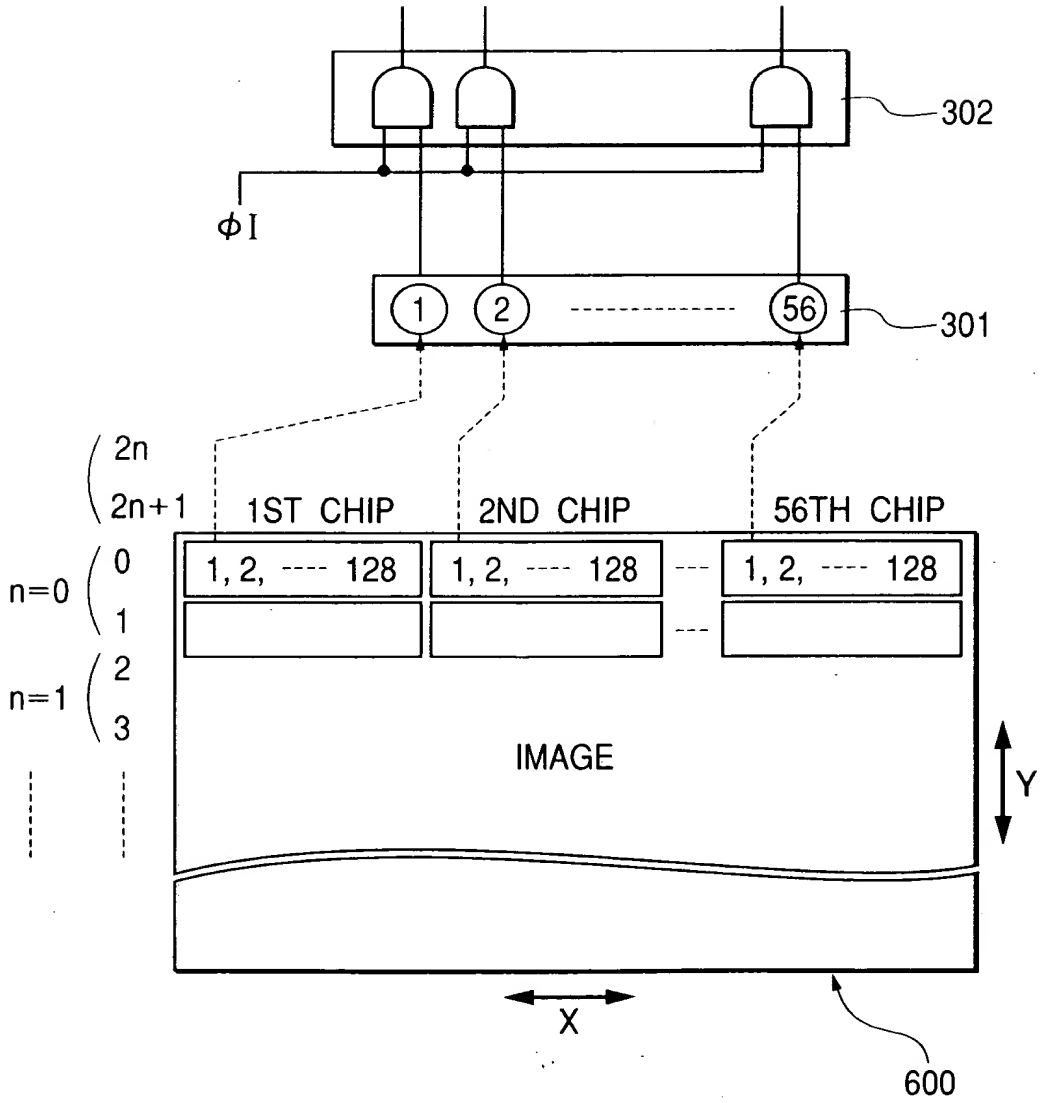
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 4



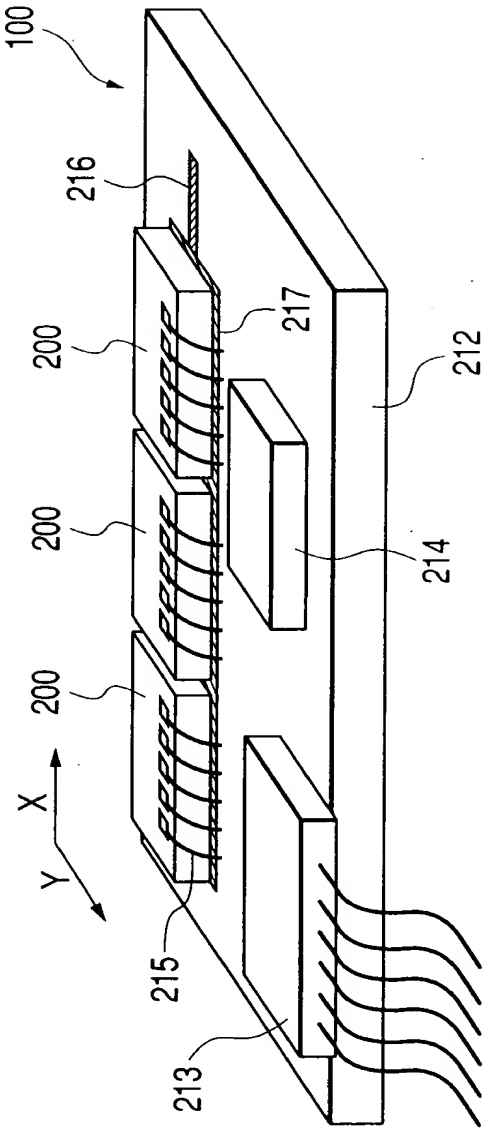
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 5



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 6



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 7

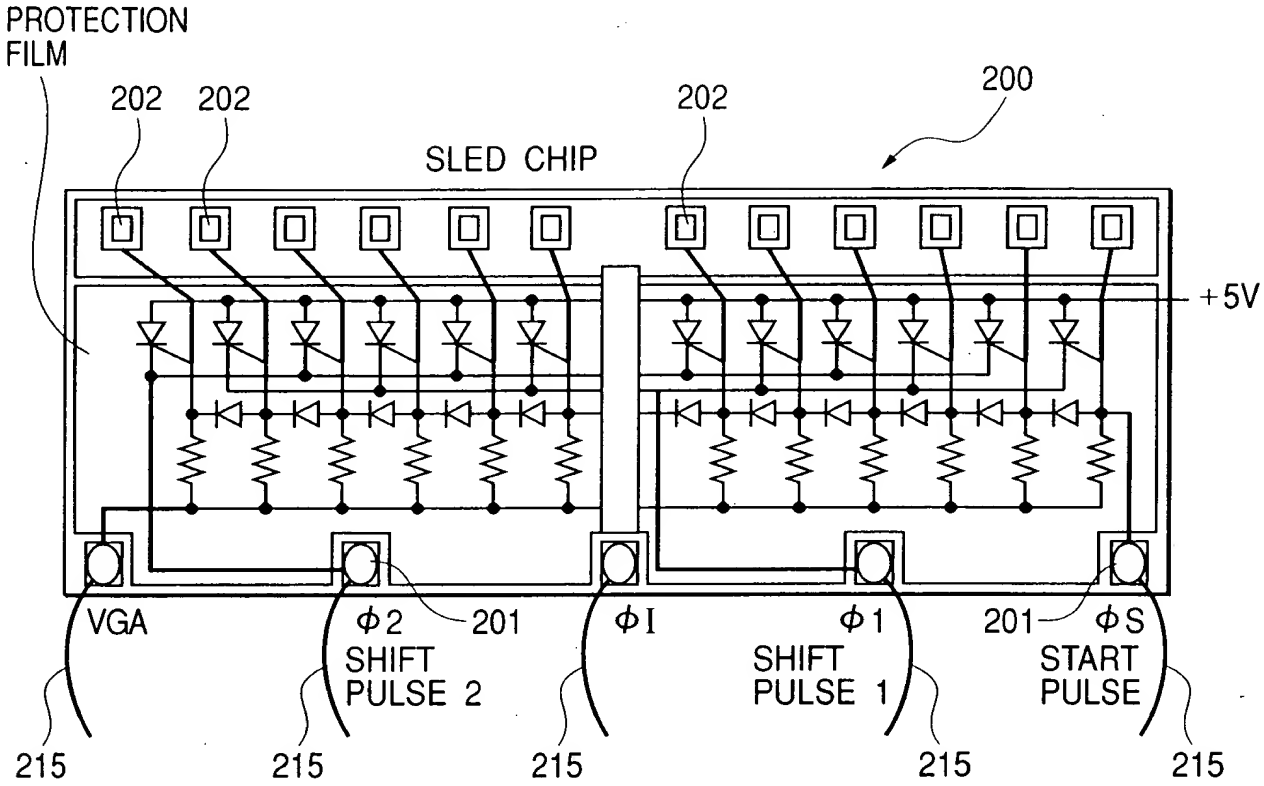
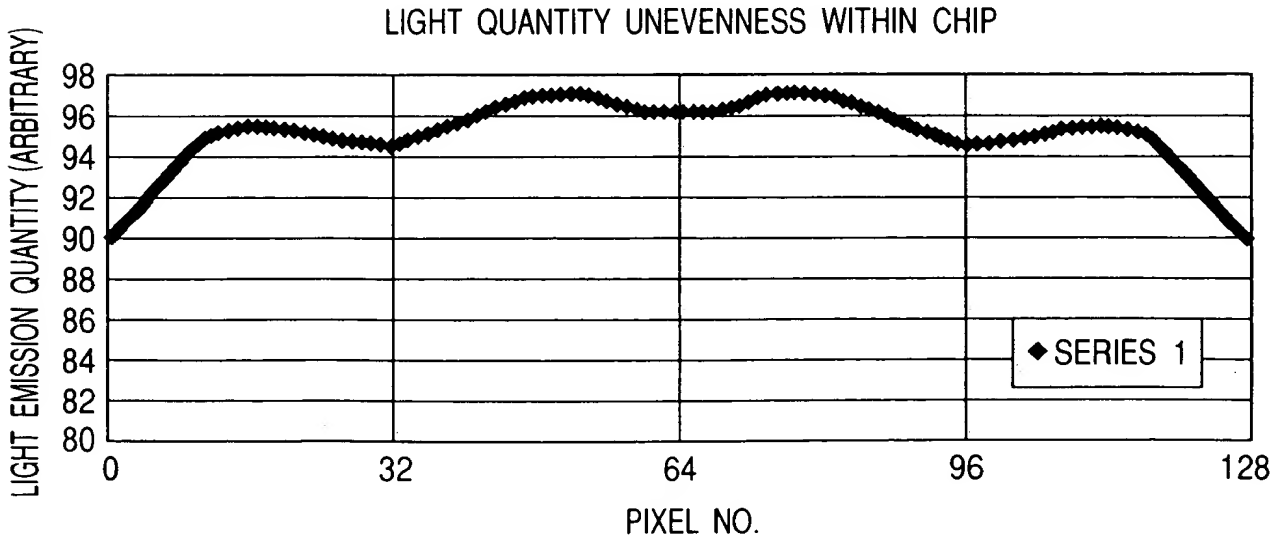


FIG. 8



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CLASS
SUBCLASS
FIG.

FIG. 9

610

IDEAL COUNT VALUE SUMMATION OF TWO QUEUES	2n ACTUAL COUNT VALUE	2n+1 ACTUAL COUNT VALUE	2n CORRECTION VALUE	2n+1 CORRECTION VALUE	ACTUAL COUNT VALUE SUMMATION OF TWO QUEUES	CORRECTION VALUE AVERAGE OF TWO QUEUES	LIGHT QUANTITY RESIDUAL ERROR RATIO
60.34579924	30	30	-2	-2	60	-2	-0.57303
60.6284033	30	31	-2	-1	61	-1.5	0.612909
60.92772837	30	31	-2	-1	61	-1.5	0.118619
61.24210197	31	30	-1	-2	61	-1.5	-0.39532
61.56927327	31	31	-1	-1	62	-1	0.699581
61.90649968	31	31	-1	-1	62	-1	0.151035
62.25065216	31	31	-1	-1	62	-1	-0.40265
62.59833552	31	32	-1	0	63	-0.5	0.641654
62.94601888	31	32	-1	0	63	-0.5	0.085758
63.29017137	32	31	0	-1	63	-0.5	-0.45848
63.62739777	32	32	0	0	64	0	0.5856
63.95456908	32	32	0	0	64	0	0.071036
64.04467636	32	32	0	0	64	0	-0.06976
64.11973512	32	32	0	0	64	0	-0.18674
64.17807286	32	32	0	0	64	0	-0.27747
64.21865966	32	32	0	0	64	0	-0.34049
64.24114776	32	32	0	0	64	0	-0.37538
64.24588492	32	32	0	0	64	0	-0.38272
64.23390106	32	32	0	0	64	0	-0.36414
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

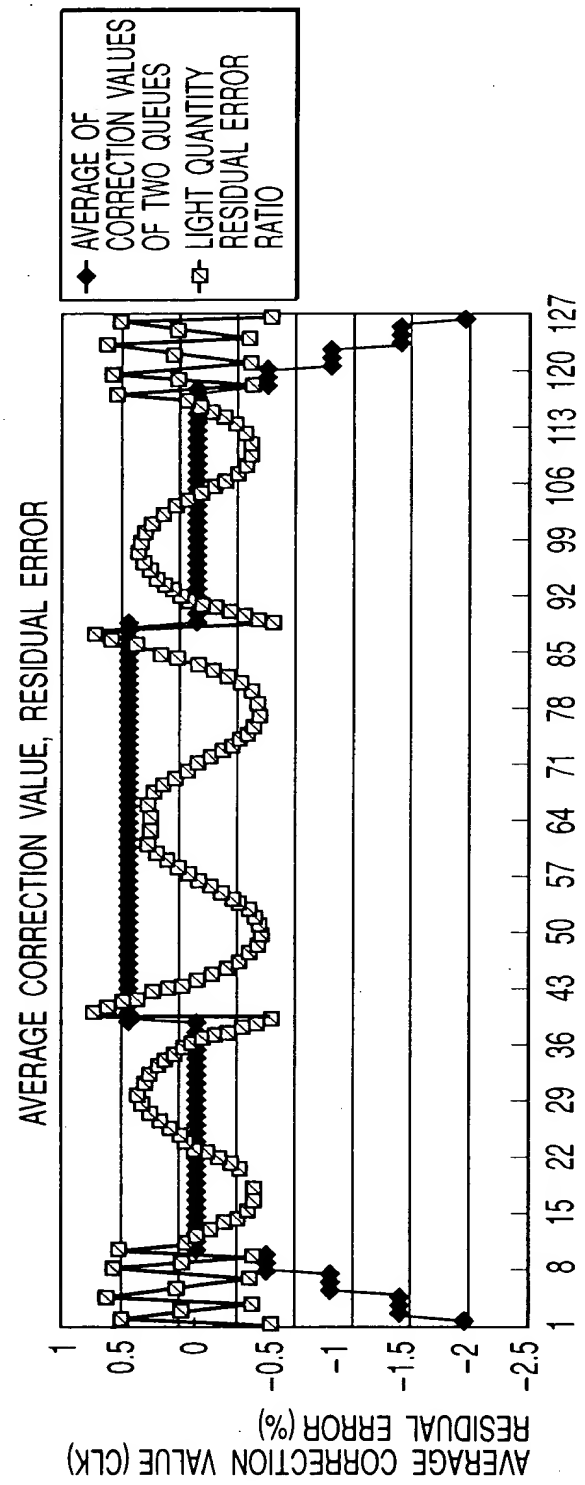

FIG. 10

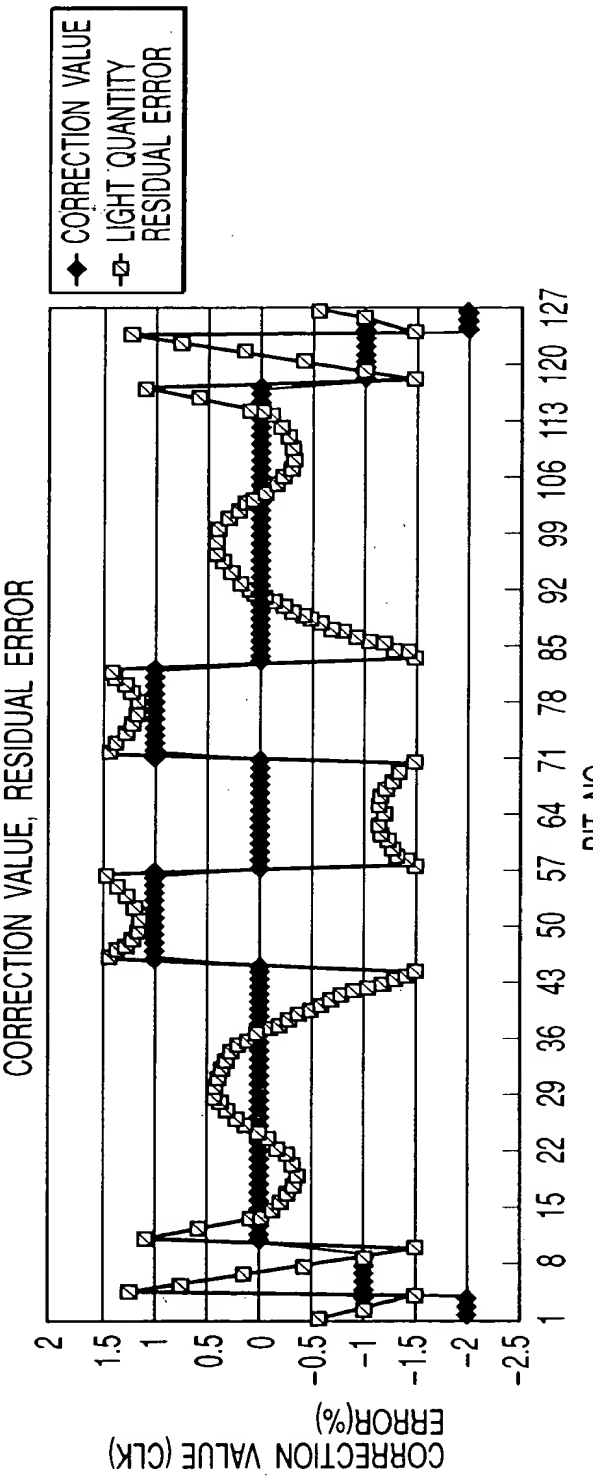

FIG. 12

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APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

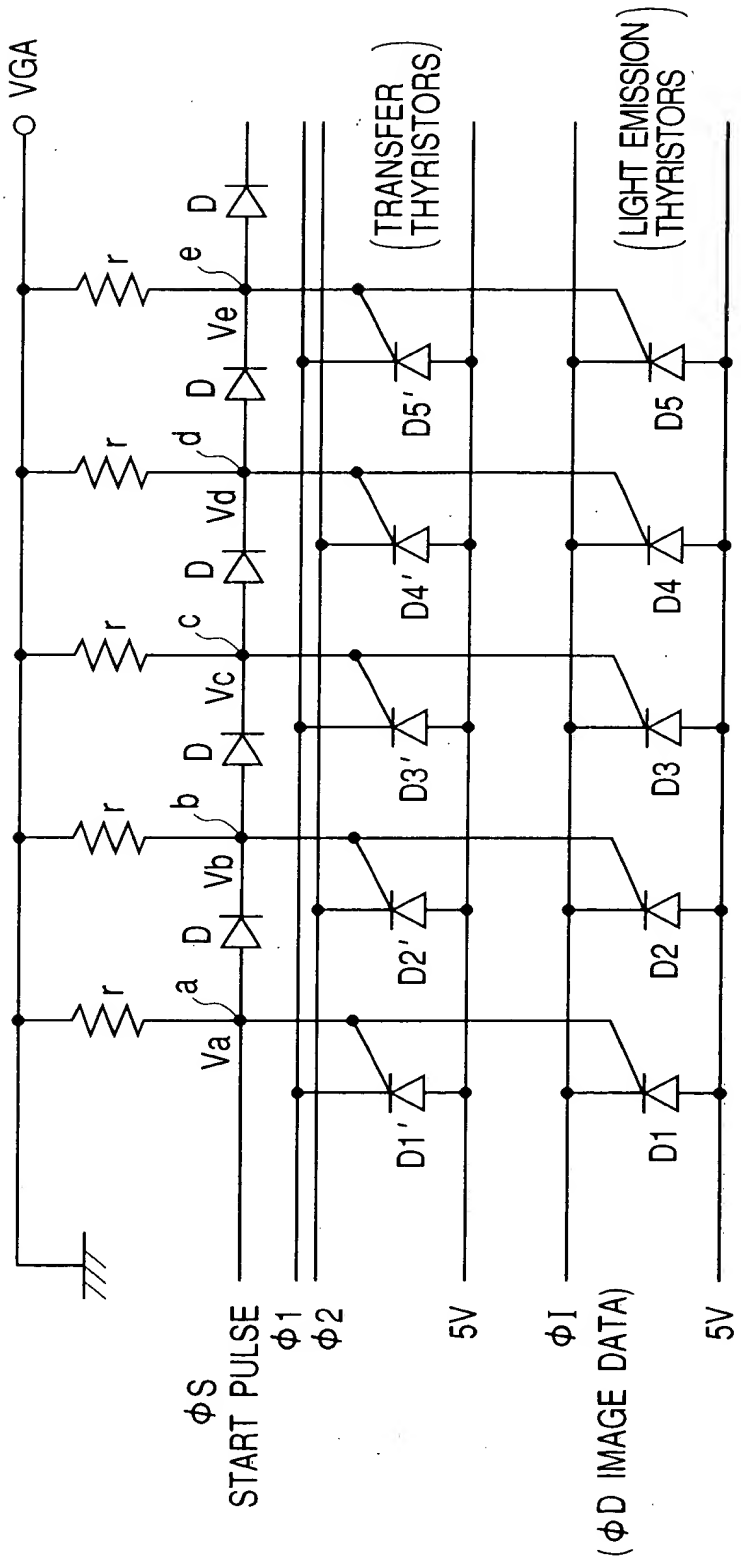
FIG. 11

600

BIT NO.	LIGHT QUANTITY (uW)	IDEAL COUNT VALUE	ACTUAL COUNT VALUE	CORRECTION VALUE	LIGHT QUANTITY RESIDUAL ERROR RATIO
1	89.6936586	30.1729	30	-2	-0.57303
2	90.113701	30.3142	30	-2	-1.036483
3	90.5585963	30.46386	30	-2	-1.52267
4	91.0258586	30.62105	31	-1	1.2375441
5	91.5121425	30.78464	31	-1	0.6995807
6	92.0133716	30.95325	31	-1	0.1510347
7	92.5248951	31.12533	31	-1	-0.40265
8	93.0416667	31.29917	31	-1	-0.955833
9	93.5584382	31.47301	31	-1	-1.502905
10	94.0699617	31.64509	32	0	1.1215464
11	94.5711908	31.8137	32	0	0.5856003
12	95.0574747	31.97728	32	0	0.0710362
13	95.1914037	32.02234	32	0	-0.069758
14	95.3029657	32.05987	32	0	-0.186737
15	95.3896747	32.08904	32	0	-0.277467
16	95.45	32.10933	32	0	-0.340492
17	95.4834247	32.12057	32	0	-0.375379
18	95.4904657	32.12294	32	0	-0.382725
19	95.4726537	32.11695	32	0	-0.36414
⋮	⋮	⋮	⋮	⋮	⋮

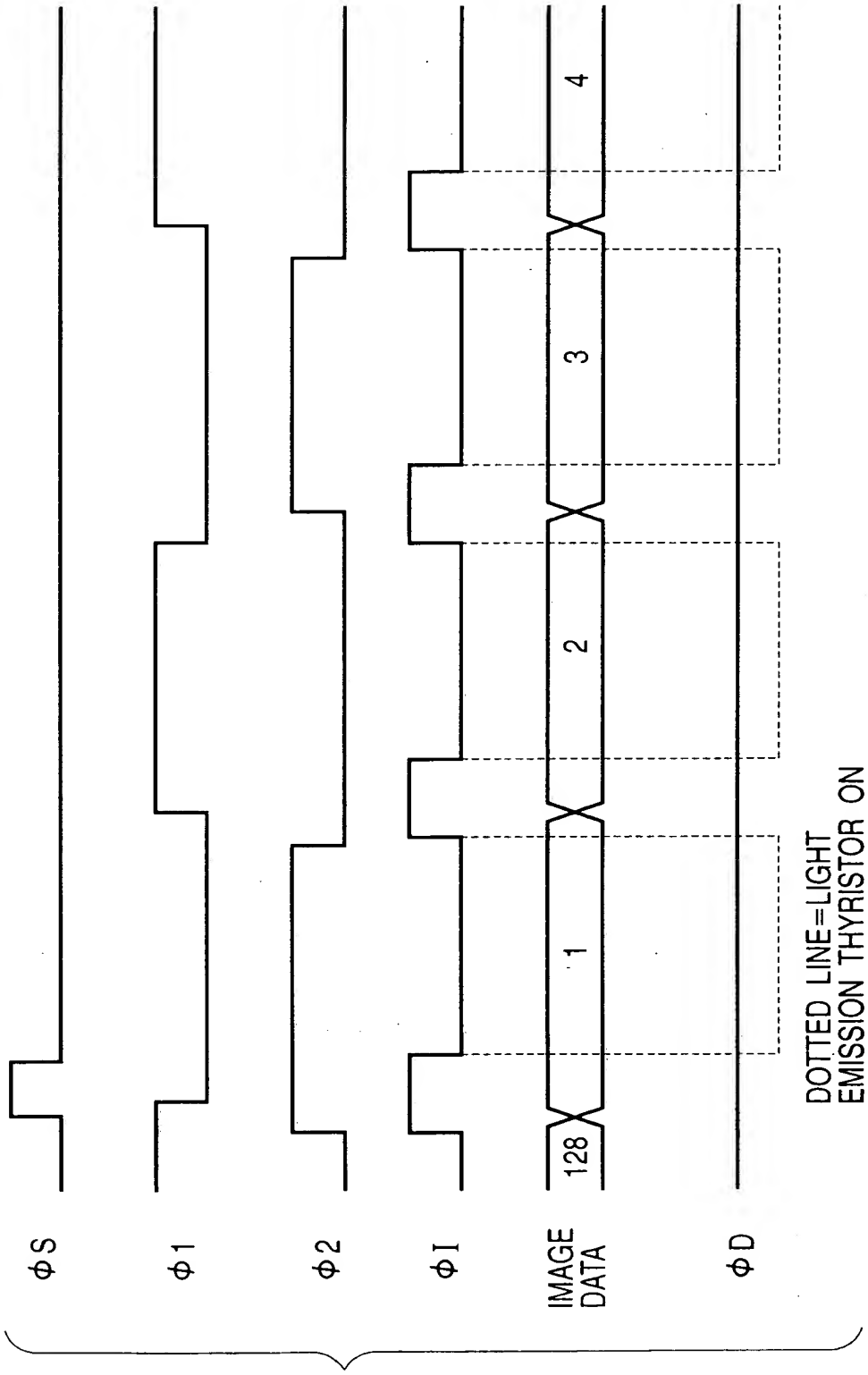
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 13



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 14



APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS | SUBCLASS

FIG. 15

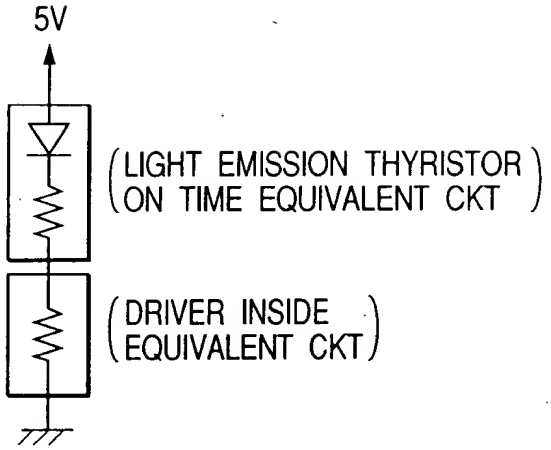


FIG. 16

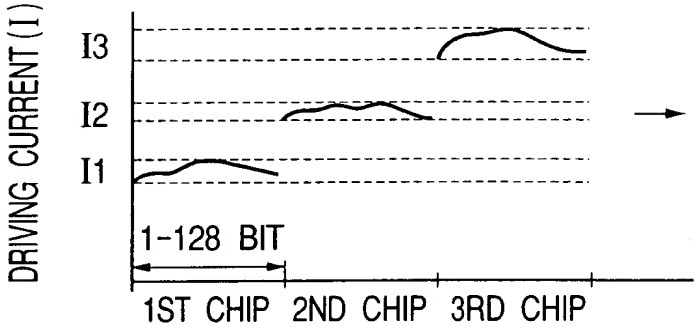


FIG. 17

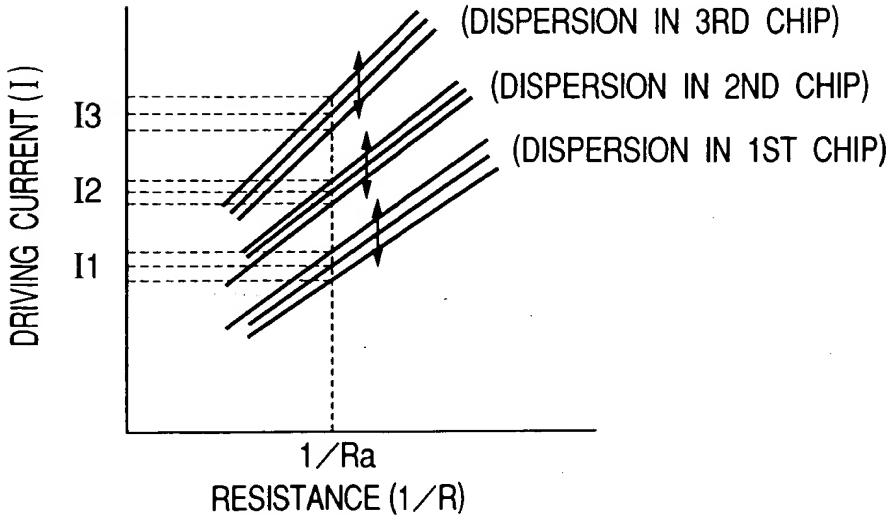


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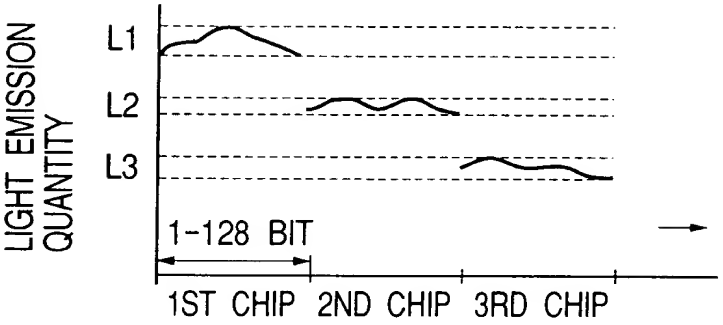
FIG. 18



US 2003/0174750 A1

FIG. 19

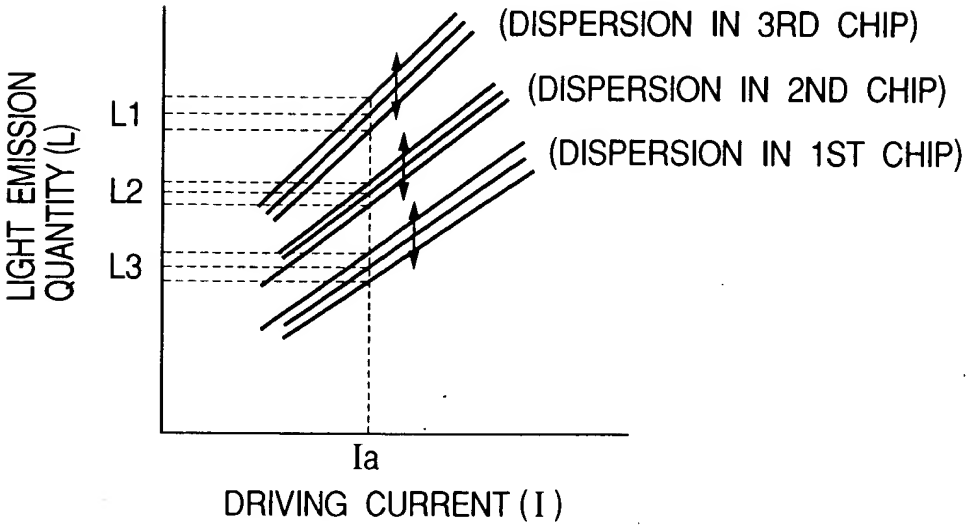


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FIG. 20

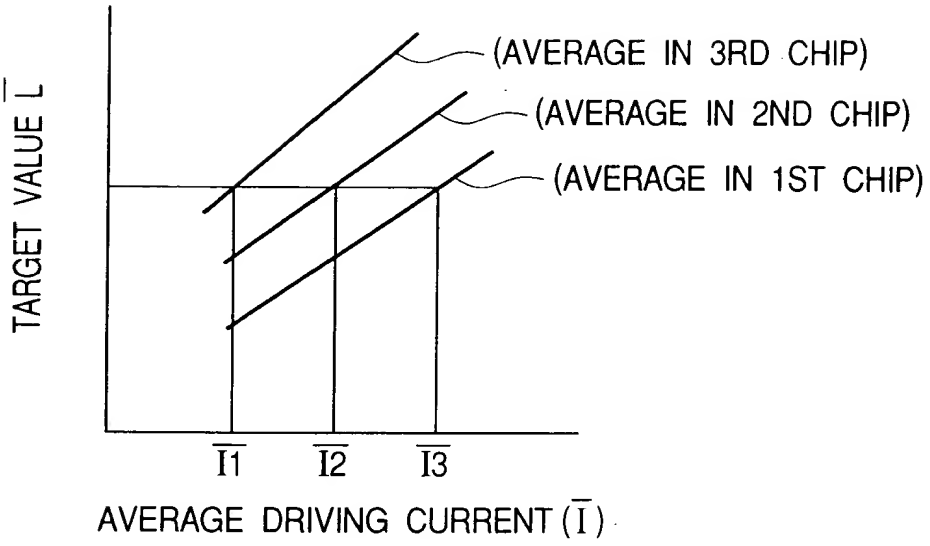
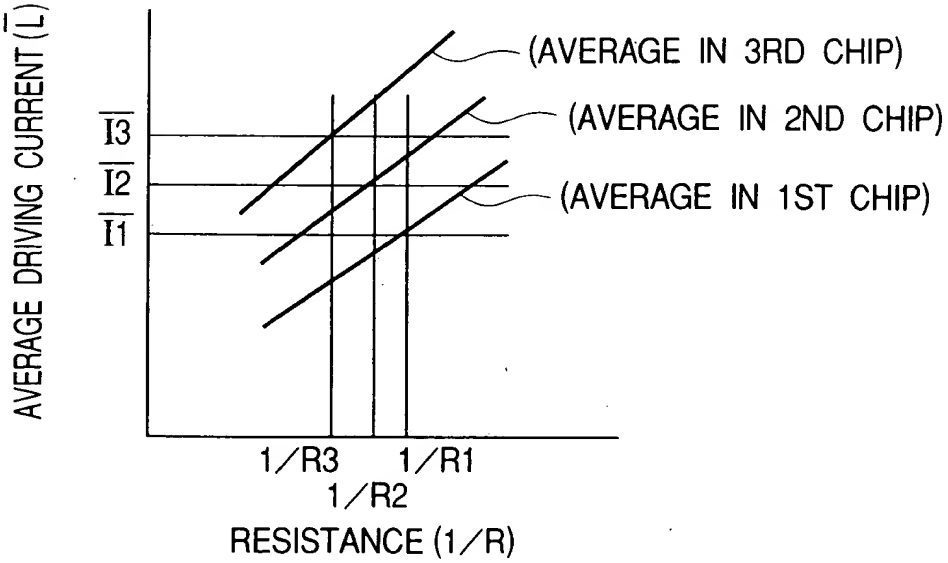
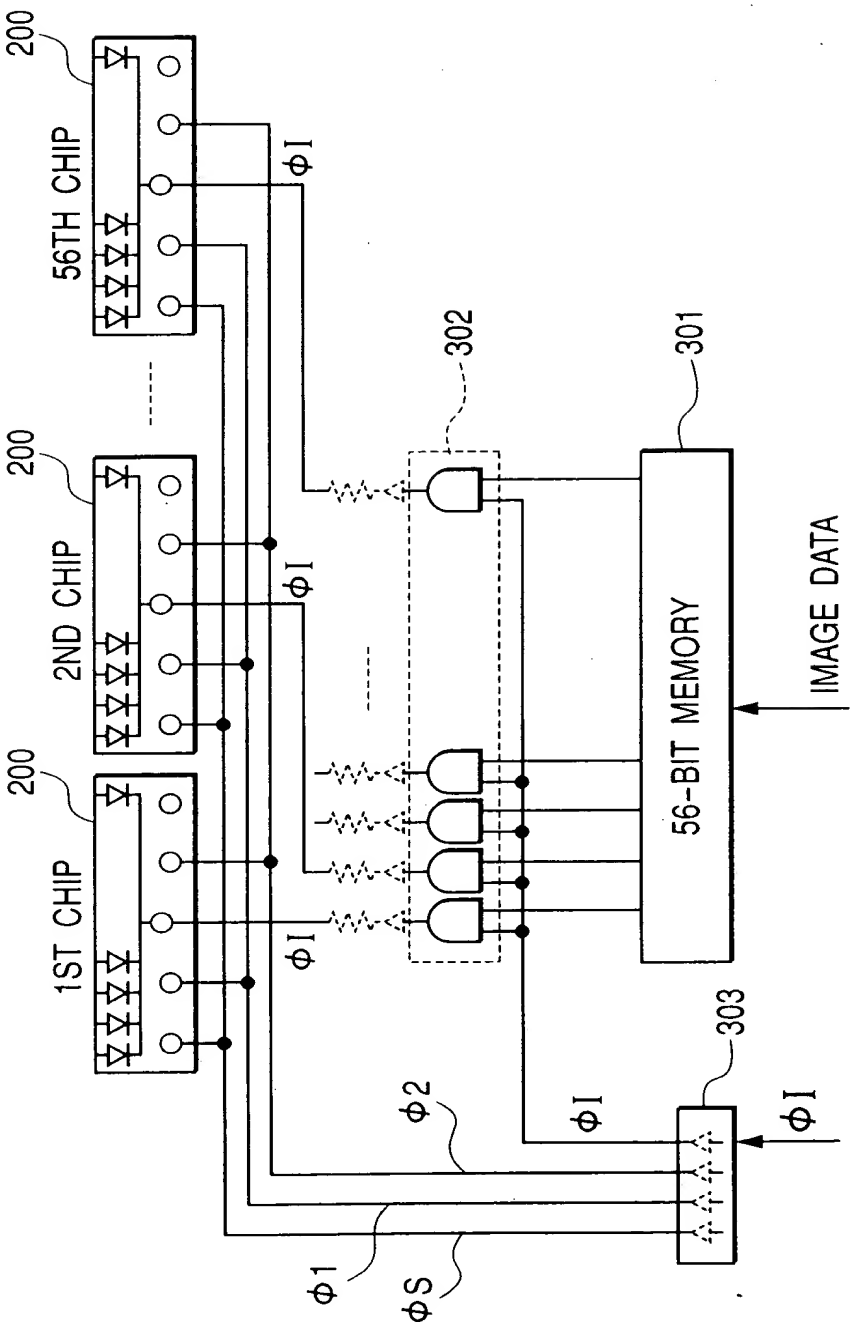


FIG. 21



APPROVED BY DRAFTSMAN | FIG. | CLASS | SUBCLASS

FIG. 22



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 23A

PIXEL NO.	1	2	3	4	------	125	126	127	128
CORRECTION VALUE (CLK)	3	2	1	0	------	0	1	2	3
COUNTER LOAD VALUE	29	30	31	32	------	32	31	30	29
LIGHT EMISSION TIME (CLK)	35	34	33	32	------	32	33	34	35

FIG. 23B

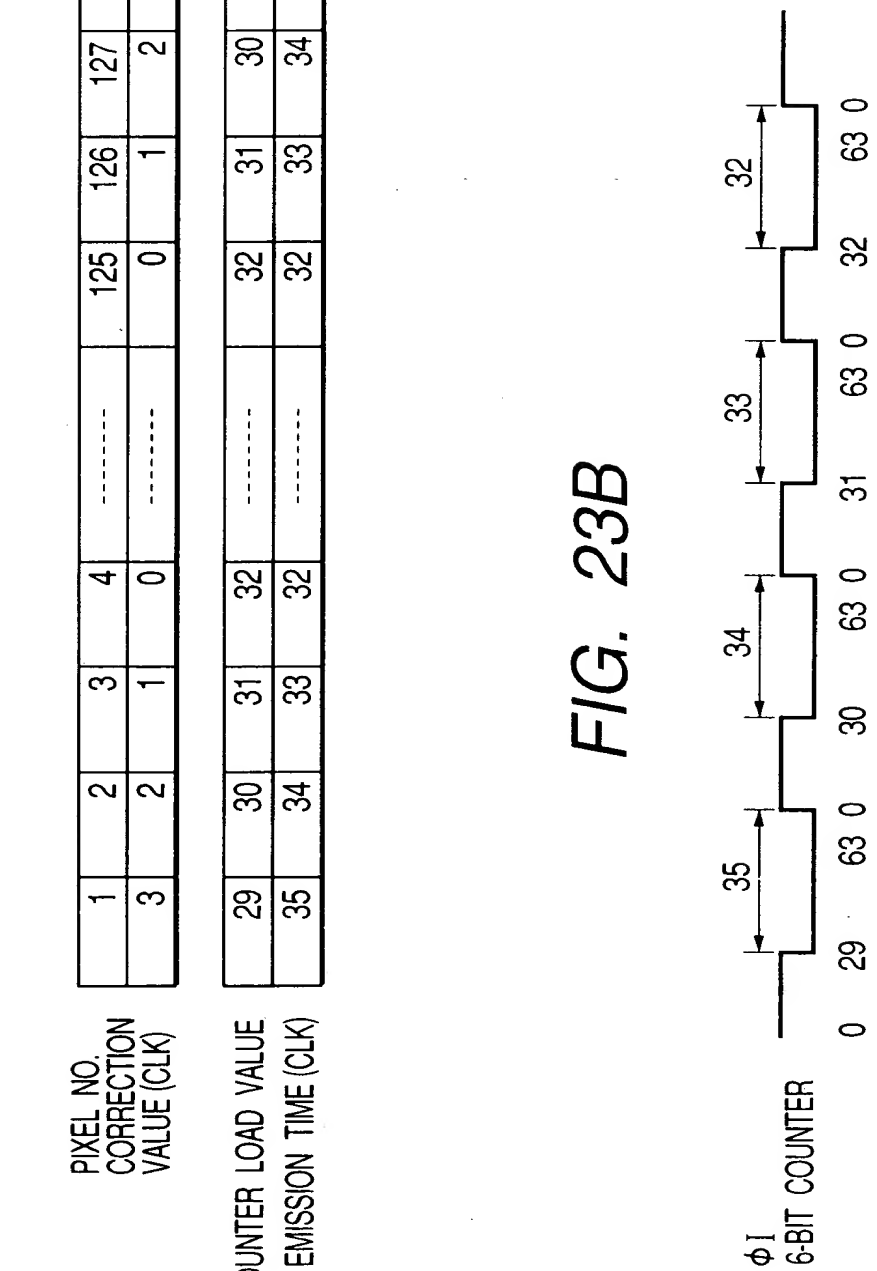


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FIG. 24

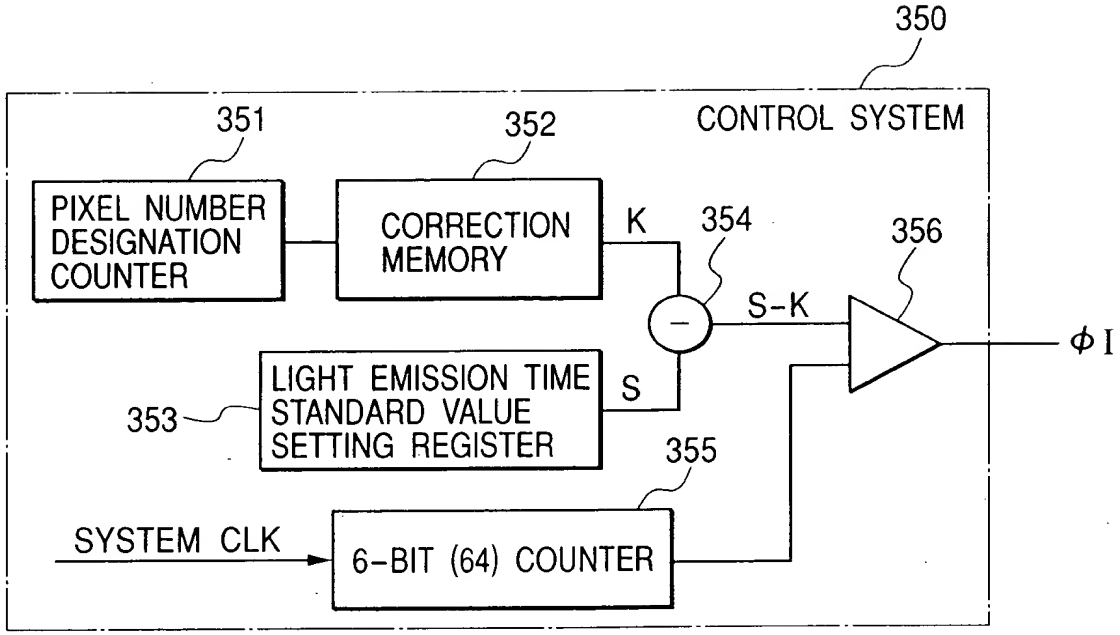
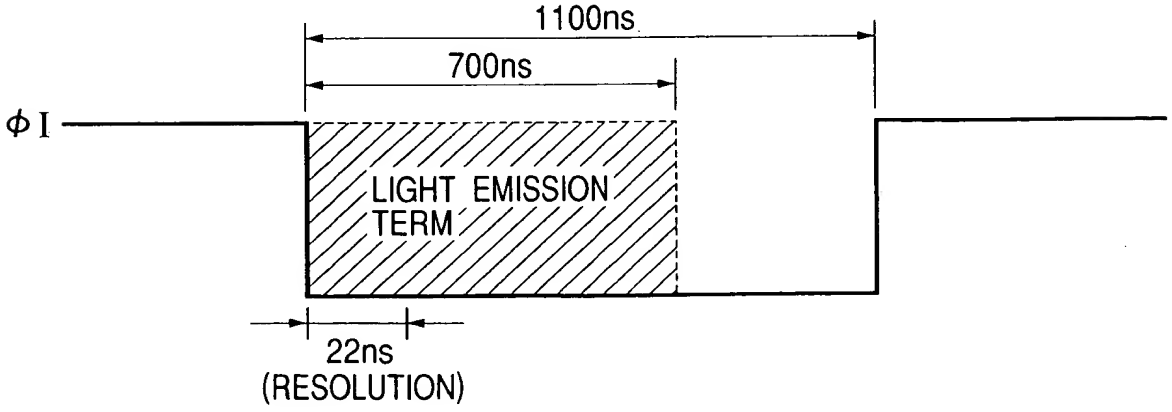
FIG. 25